

RESULT 1  
 BC089615  
 LOCUS BC089615 845 bp mRNA linear ROD 15-JUL-2006  
 DEFINITION Mus musculus natriuretic peptide precursor type A, mRNA (cDNA clone MGC:107674 IMAGE:6755676), complete cds.  
 ACCESSION BC089615  
 VERSION BC089615.1 GI:58476266  
 KEYWORDS MGC.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 845)  
 AUTHORS Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Villalón,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettelman,M., Madan,A., Rodrigues,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.  
 CONSRTM Mammalian Gene Collection Program Team  
 TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)  
 PUBMED 12477932  
 REFERENCE 2 (bases 1 to 845)  
 CONSRTM NIH MGC Project  
 TITLE Direct Submission  
 JOURNAL Submitted (01-FEB-2005) National Institutes of Health, Mammalian Gene Collection (MGC), Bethesda, MD 20892-2590, USA  
 REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>  
 COMMENT Contact: MGC help desk  
 Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
 Tissue Procurement: Bradfield Laboratory  
 cDNA Library Preparation: Chris Bradfield  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305  
 Web site: <http://www-shgc.stanford.edu>  
 Contact: (Dickson, Mark) [mcd@paxil.stanford.edu](mailto:mcd@paxil.stanford.edu)  
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.  
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAM Plate: 1 Row: b Column: 15  
This clone was selected for full length sequencing because it  
passed the following selection criteria: Hexamer frequency ORF  
analysis, Similarity but not identity to protein.

```
FEATURES             Location/Qualifiers
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                        /mol_type="mRNA"
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                        /db_xref="GeneID:230899"
                        /db_xref="MGI:97367"
                        /translation="MGSFSSITLGFFLVLAFWLPGHIGANPVYSAVSNTDLMDFKNLLD
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PSDRSALLKSKLRALLAGPRSLRRSSCFGGRIDRIGAQSGLGCSNFRYRR"
```

#### ORIGIN

Query Match 100.0%; Score 111; DB 6; Length 845;  
Best Local Similarity 100.0%; Pred. No. 1.5e-26;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 GTGTCCAACACAGATCTGATGGATTTCAAGAACCTGCTAGACCACCTGGAGGAGAAGATG 60
          |||
Db      180 GTGTCCAACACAGATCTGATGGATTTCAAGAACCTGCTAGACCACCTGGAGGAGAAGATG 239

Qy      61 CCGGTAGAAGATGAGGTCATGCCCCGCAGGCCCTGAGTGAGCAGACTGAG 111
          |||
Db      240 CCGGTAGAAGATGAGGTCATGCCCCGCAGGCCCTGAGTGAGCAGACTGAG 290
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